



DWR CCTAG Scenarios Subgroup Meeting



October 17, 2014

**California Department of Water Resources
Climate Change Technical Advisory Subgroup Meeting**

October 17, 2014

9:30 am-12:00 pm

DWR Creekside Conf Room, 2nd floor, Bonderson

<https://resources.webex.com/resources/j.php?ED=229264172&UID=491358787&RT=MiM0>

**Provide your phone number when you join the meeting to receive
a call back. Alternatively, you can call:**

Call-in toll-free number (Verizon): 1-877-923-1522 (US)

Host access code: 679 474 0

Attendee access code: 295 056 7

AGENDA:

Briefing on DWR Decision Scaling Study (AS)

Recommendations Report (EL)

Begin discussions on emissions scenarios (RCP) recommendations (AS)

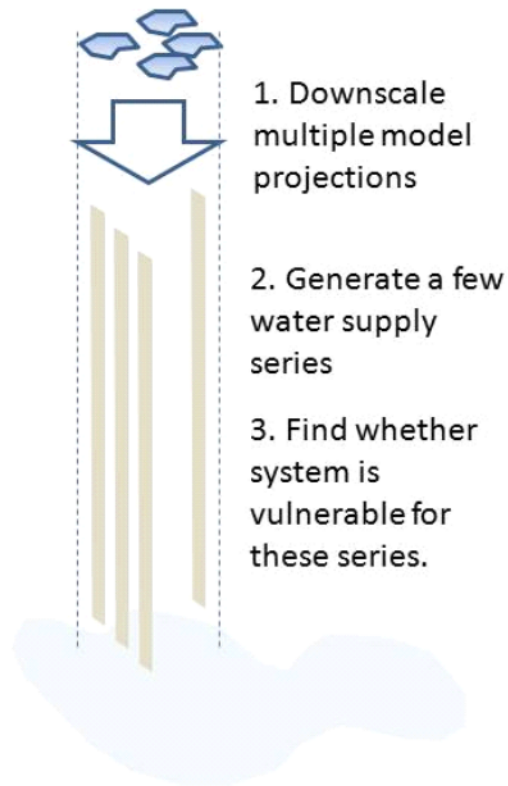
Next Full CCTAG @ Scripps- San Diego November 19th

No Subgroup in November, Set date for December meeting

Decision Scaling Approach

presented by Dr. Casey Brown (UMass)

Traditional Approach



Decision Scaling

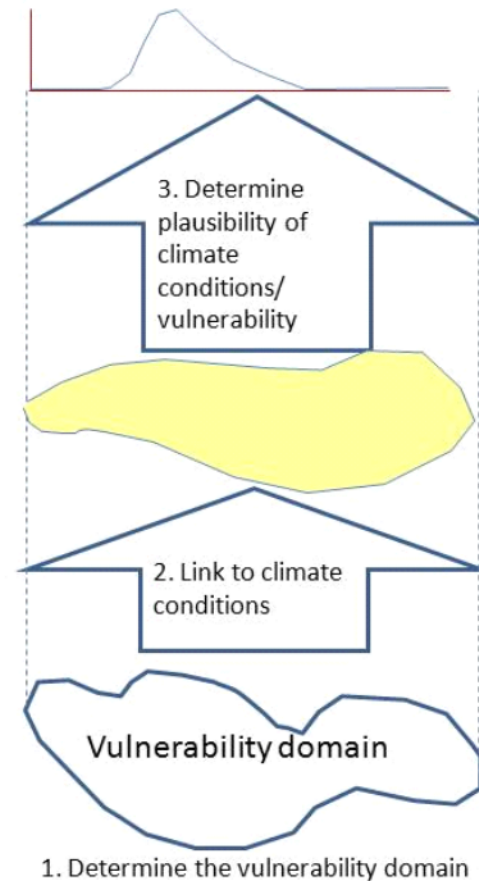
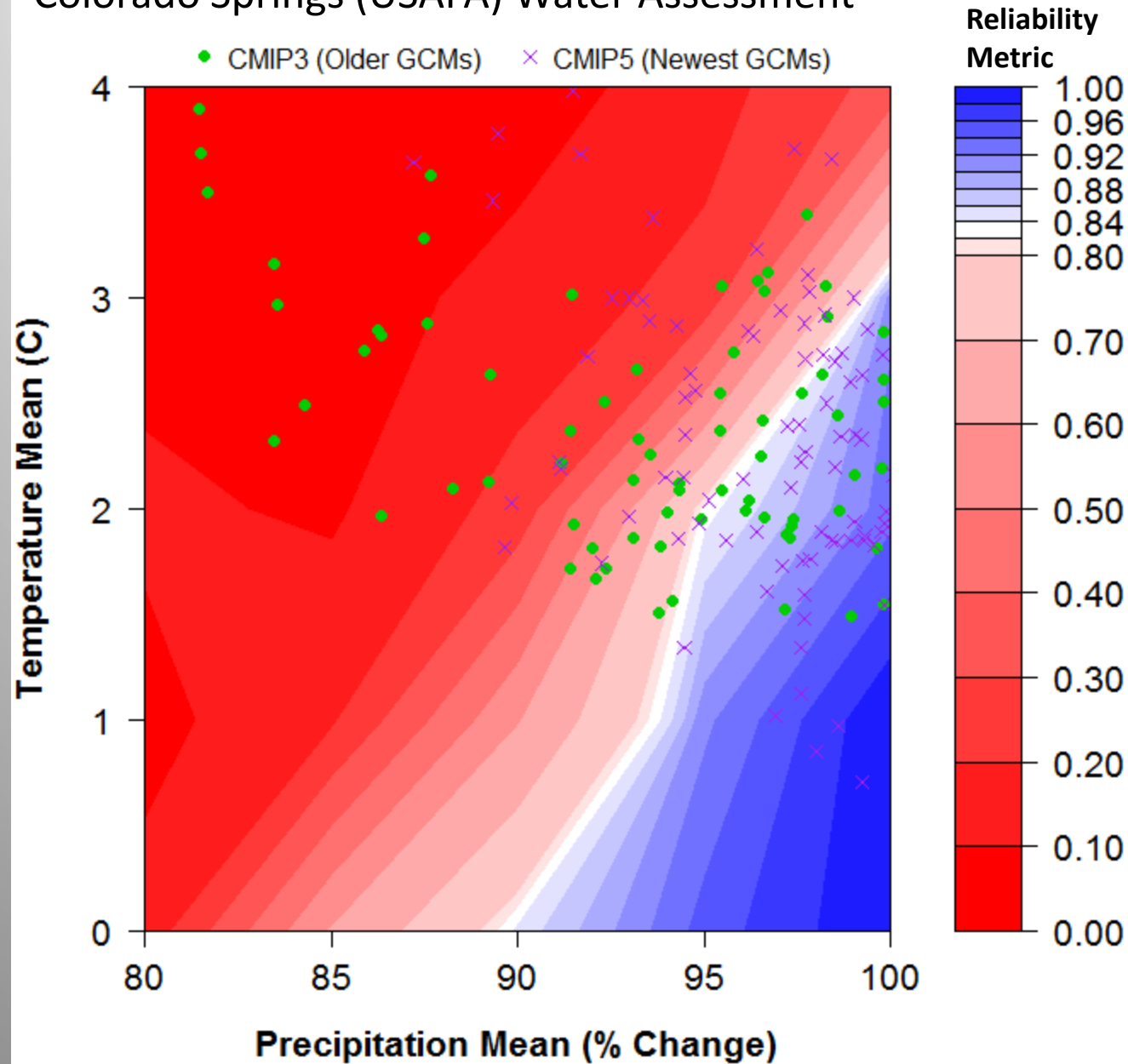


Figure 1 Steps in decision scaling vs. traditional approach

Colorado Springs (USAFA) Water Assessment



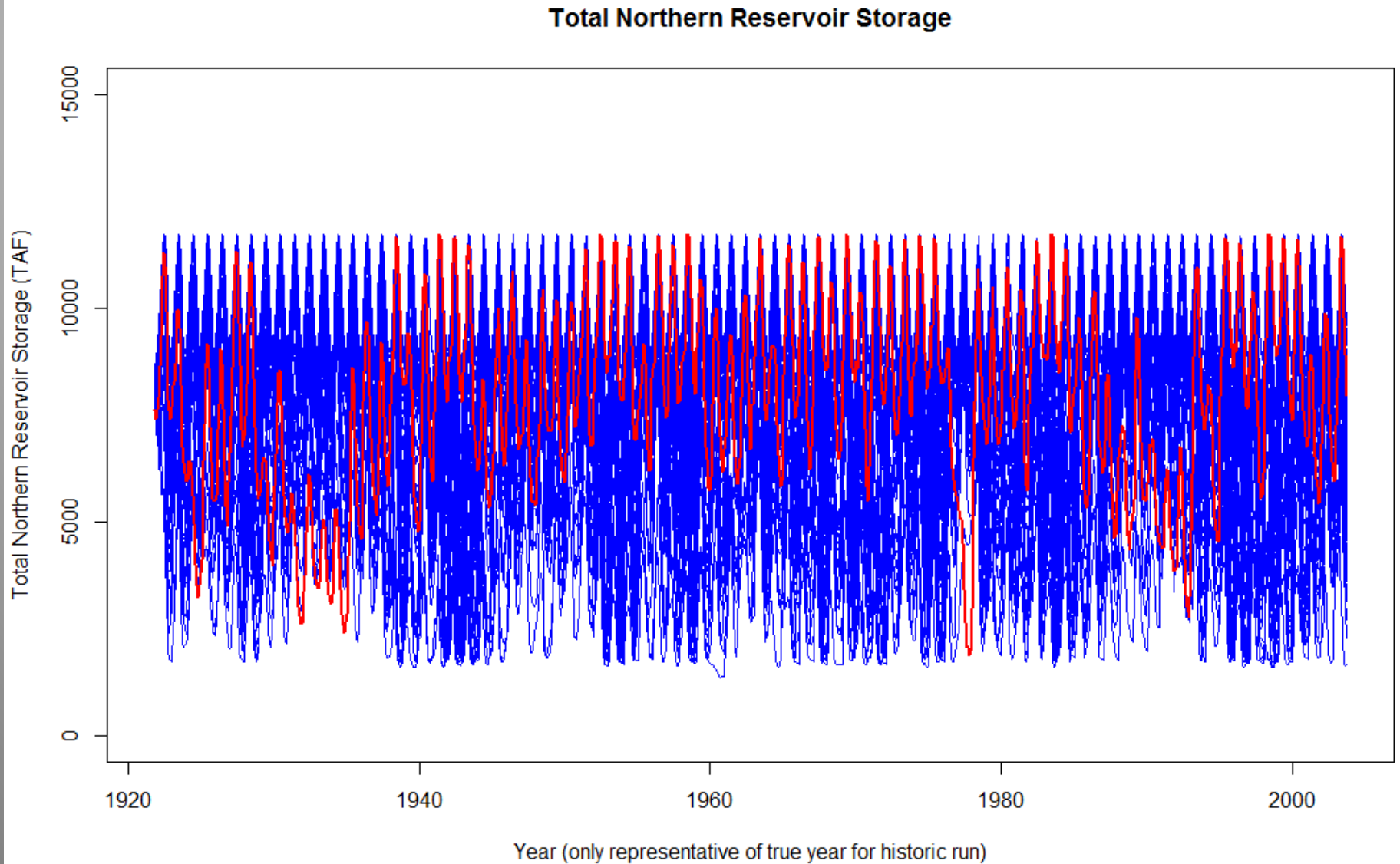
Initial Drought Vulnerability Assessment

	Length of Drought				
Drought Quantile	1-yr	2-yr	3-yr	5-yr	10-yr
1st	2	2	2	2	2
25th	2	2	2	2	2
50th	2	2	2	2	2
75th	2	2	2	2	2
99th	2	2	2	2	2

We made 5000 weather traces of 82-years by resampling historical years using the weather generator to ensure that each simulation followed the statistical and spectral signature of the historical record.

From the 5000 traces 50 were chosen that had droughts of varying severity and length. All 50 traces were run through CalLite to examine impacts.

Initial Drought Vulnerability Assessment



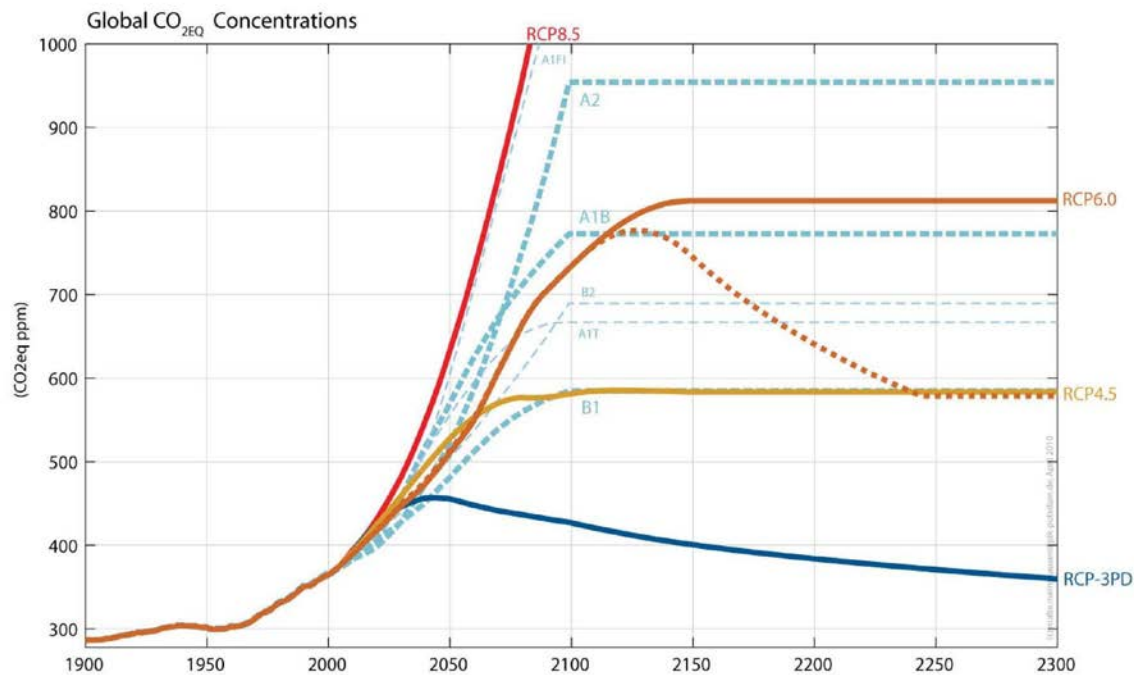
Still to Come

- Deeper analysis of how each of the drought scenarios stresses the system.
- Selection of a subset of these scenarios to carry forward into a climate change analysis.
- We are still struggling with the reconfiguration of CalLite to run on synthetic precipitation and hydrology instead of historical data and associated CALSIM inputs.

10/14/14 CCTAG Recommendations to DWR	Lead/ Team	
Chapter		
Executive Summary	TBD	
1) Introduction	Lead: Schwarz , Young, Kosta, Holly, Guido, Al H., Dan, Mike D., Mike A.	
2) Model Selection	Lead: Dan C	
3) Stress Test/ Extreme Scenario Development	Lead: M Anderson , Curtis, R Langridge, J Gyakum, K Redmond, M Dettinger (Schwarz, Juricich, DWR)	
4) Downscaling	Lead: Dettinger, L Kavvas , Guido, Schwarz, Jamie A.	
5) Guidance for DWR Applications	Lead: Sarah , Mike D., Kosta, Ruth, Al H., Holly	
6) Recommendations for future work (<i>draft title</i>)	Lead: Al H. , Kosta, Sarah, Mike D. Lev, Holly.	

CCTAG Recommendations on *Emissions Scenarios*

CO₂-eq Concentrations for the RCPs



From Malte Meinshausen

THANK YOU!

Next Subgroup **December (TBD)**

Next Full CCTAG **November 19th (@Scripps)**

